

## Quiz Review Warm-Up

1. If the radius of a circle is 3 cm., what is the diameter? Find the circumference and area of the circle.
2. If a circle has a circumference of 28.8 cm., what is the diameter of the circle?
3. What connection did you make between the shape of the cross section when sliced parallel to the base and the shape of the base of the 3-D figure?

**1. Draw two different three dimensional shapes that have a rectangular cross-section when sliced parallel to the base. Name the three dimensional shapes you drew.**



**2. Draw a three dimensional shape that has a circular cross section. Name the shape that you drew.**



**3. The figures below were sliced by the cutting plane to create a cross-section.**



**Name of shape:**

**Parallel Cross-Section:**

**Perpendicular Cross-Section:**

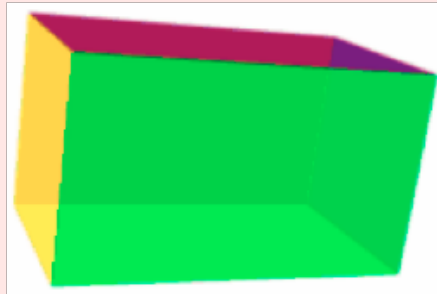


**Name of shape:**

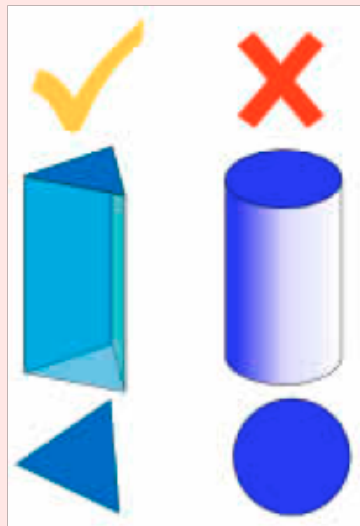
**Parallel Cross-Section:**

**Perpendicular Cross-Section:**

**4. As she looked at the rectangular prism below, Jill said that the cross-section will be exactly the same if the prism is sliced parallel to the base or perpendicular to the base. Is she correct? Justify your response.**



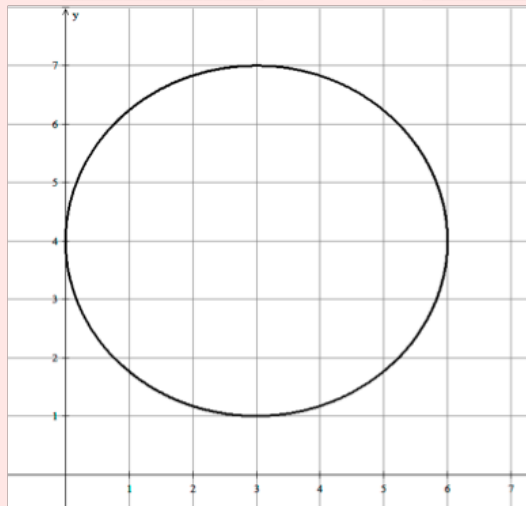
**5. Explain why the cylinder does not fit into the category “Prisms”.**



6. Use the circle below. Show your calculations.

a. Find the Radius: \_\_\_\_\_ Diameter: \_\_\_\_\_

Circumference: \_\_\_\_\_ Area: \_\_\_\_\_




b. Reduce the circle by .50. Show your calculations of the new circle.

Radius: \_\_\_\_\_ Diameter: \_\_\_\_\_

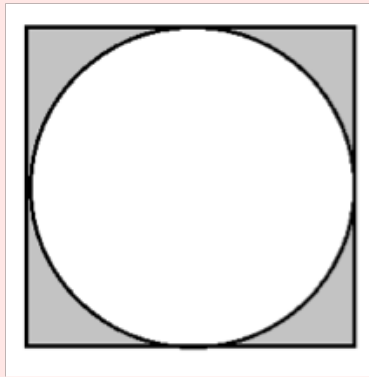
Circumference: \_\_\_\_\_ Area: \_\_\_\_\_

**7. Brianna measured the circular button on her shirt. Then she calculated that it has a circumference of 24.4 millimeters. What is the button's diameter, to the nearest tenth of a millimeter? Show your work.**

A decorative border at the bottom of the pink box featuring various sizes of light yellow and white hearts.

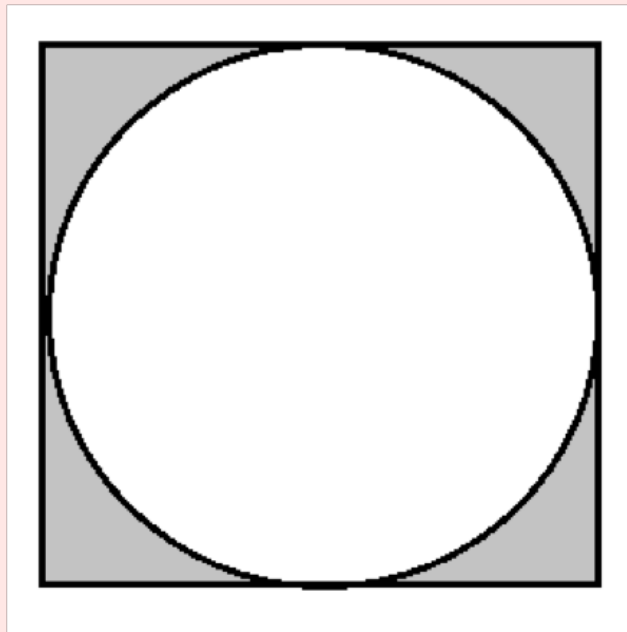


**8. The bottom of a soup can is made from the square piece of metal as shown in the diagram below.**



**If the radius of the circle is 4 cm, what is the area of the shaded portion? Show all work.**

**9. If the radius of the circle below is 6 cm., what is the area of the shaded portion? Show all work.**



## Quiz Day Warm-Up

Good luck on your quiz!!

1. If the diameter of a circle is 14 cm., what is the radius? Find the area and circumference of the circle.
2. Which two 3-D shapes have rectangular cross-sections when sliced parallel to the base? Draw them.
3. Why is a cylinder NOT considered to be a PRISM? Can you draw a cylinder?
4. A circle is within a square that is 8 cm. by 8 cm, as shown below. Find the area of the square. What is the area of the circle? What is the area of the shaded portion?

